

BOOK NOTICE

BHATLA, SATISH C. 1994. **Moss Protonema Differentiation**. (ISBN 0-471-94438-6, hbk). John Wiley & Sons Inc., 605 Third Avenue, New York, NY 10158. \$79.95. 296 pp.

This is also Series No. 13 of Research Studies in Botany and Related Applied Fields (Research Studies Press Ltd., Taunton, Somerset, England: ISBN 0 86380 157 9).

The following chapter titles describe the coverage: 1) Structure and Germination of Spores, 2) The First Formed Protonema, 3) Structure and Development of Caulonema, 4) Orientation of Protonema by Light and Gravity, 5) Regulation of Caulonema Formation by Auxins, 6) Auxin-cyclic Adenosine Monophosphate (cAMP) Interaction in Protonema Differentiation, 7) Cytokinin Action on Caulonema Cells, 8) Calcium Mediation of Cytokinin-induced Bud Formation, 9) Nucleic Acid and Protein Synthesis in Relation to Protonema Differentiation, and 10) Concluding Remarks.

From the Preface:

"A need for the present volume was felt because there has been no effort so far to critically evaluate and compile the available information, in a single comprehensive volume, although some of the topics have been discussed occasionally in various symposia and conferences. This work provides an up-to-date, in-depth analysis of our present understanding of cell differentiation in moss protonema. It is intended for advanced students and professionals interested in cell differentiation in plants in general and mosses in particular.

Written in ten chapters, the book provides an insight into the ultrastructural, physiological, biochemical and molecular events associated with moss protonema differentiation. ..."

The literature cited in the References extend from page 255 to 291 and is indicative of the depth of the subject matter that is discussed and evaluated throughout the text.

—*Wm. F. Mabler.*